

# CD3e Monoclonal Antibody (145-2C11), APC-eFluor™ 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Bacteria, Mouse, Human
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	145-2C11
Conjugate	APC-eFluor™ 780
Excitation/Emission Max	756/785 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_11149861

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Flow Cytometry (Flow)	1 µg/test	111 Publications
Functional Assay (FN)	-	1 Publication
T-Cell Activation (TCA)	-	1 Publication

## Product Specific Information

**Description:** The 145-2C11 monoclonal antibody reacts with mouse CD3e, a 20 kDa subunit of the TCR complex. Along with the other CD3 subunits, gamma and delta, the epsilon chain is required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. Binding of 145-2C11 to TCR initiates the intracellular biochemical pathway resulting in cellular activation, proliferation, and apoptosis depending on specific conditions utilized. 145-2C11 is commonly used as a phenotypic marker for mouse T cells.

**Applications Reported:** This 145-2C11 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 145-2C11 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable

of detecting this fluorochrome.

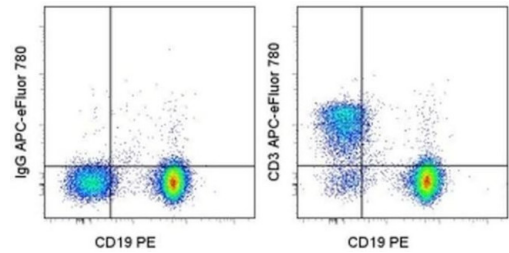
Light sensitivity: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency /compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

**Product Images For CD3e Monoclonal Antibody (145-2C11), APC-eFluor™ 780, eBioscience™**



**CD3e Antibody (47-0031-82) in Flow**  
Staining of C57Bl/6 splenocytes with Anti-Mouse CD19 PE (Product # 12-0193-82) and 0.5 µg of Armenian Hamster IgG Isotype Control APC-eFluor® 780 (Product # 47-4888-80) (left) or 0.5 µg of Anti-Mouse CD3e APC-eFluor® 780 (right). Cells in the lymphocyte gate were used for analysis.

**View more figures on [thermofisher.com](https://thermofisher.com)**

Immunohistochemistry (Frozen) (2)

International journal of cancer	Year 2006
<b>HSP70 vaccine in combination with gene therapy with plasmid DNA encoding sPD-1 overcomes immune resistance and suppresses the progression of pulmonary metastatic melanoma.</b>	
Authors: Geng H,Zhang GM,Xiao H,Yuan Y,Li D,Zhang H,Qiu H,He YF,Feng ZH	

Investigative ophthalmology & visual science	Year 2005
<b>CCR5-deficient mice develop experimental autoimmune uveoretinitis in the context of a deviant effector response.</b>	
Authors: Takeuchi A,Usui Y,Takeuchi M,Hattori T,Kezuka T,Suzuki J,Okunuki Y,Iwasaki T,Haino M,Matsushima K,Usui M	

Flow Cytometry (111)

Immunity, inflammation and disease	Year 2023
<b>NCR negative group 3 innate lymphoid cell (NCR<sup>+</sup> ILC3) participates in abnormal pathology of lung in cigarette smoking-induced COPD mice.</b>	
"Published figure using CD3e monoclonal antibody (Product # 47-0031-82) in Flow Cytometry"	
Authors: Chu S,Ma L,Yang X,Xiao B,Liang Y,Zheng S,Li L	

Diabetes	Year 2023
<b>Adipocyte-Secreted IL-6 Sensitizes Macrophages to IL-4 Signaling.</b>	
"Published figure using CD3e monoclonal antibody (Product # 47-0031-82) in Flow Cytometry"	
Authors: Luan D,Dadpey B,Zaid J,Bridge-Comer PE,DeLuca JH,Xia W,Castle J,Reilly SM	

View more Flow references on thermofisher.com

More applications with references on thermofisher.com

- FN (1)
- TCA (1)

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.